"RE-BUILDING THE CITY'S WATER SYSTEMS FOR THE 21ST CENTURY"

Sewerage & Water Board OF NEW ORLEANS

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January 27, 2023

Addendum No. 5

Your reference is directed to **Contract 1415 – CARROLLTON WATER PURIFICATION PLANT WEST POWER COMPLEX FOUNDATIONS AND UNDERGROUND UTILITIES** for the Sewerage and Water Board of New Orleans which is scheduled to open at **11:30 a.m. Local time** on **February 8, 2023**.

This Addendum consists of 1 Page(s) and 3 Attachment(s).

This addendum provides for the following:

A5.1. Volume 4, Part 1, SWBNO Standard Drawings:

ADD Sewerage and Water Board of New Orleans Standard Drawing No. 1000-P5

A5.2. This Addendum includes the following attachments (not included in the page count):

a. Attachment 1 – C1415 Questions and Responses During Bidding – Dated January 26, 2023
b. Attachment 2 – Sewerage and Water Board Standard Drawing No. 1000-P5 – Dated July 17, 2001
c. Attachment 3 – C1415 Bidder Reference Model – January 26, 2023

The changes, additions, and/or deletions included herein are hereby made part of the Contract Documents for the CP-1415 West Power Complex Foundations and Underground Utilities project, as fully and completely as if the same were set forth therein. The bidder shall acknowledge receipt thereof on the Form of Proposal.

*** END OF ADDENDUM ***

C1415 – WPC Foundations and Underground Utilities

Questions and Responses During Bidding

BIDDER QUESTION #1	We do not see the contract duration specified. Please provide.
RESPONSE #1	**Contract Time is defined as 330 days, please refer to Addendum 1.**
BIDDER QUESTION #2	Wage rates are not linked or attached as stated.
RESPONSE #2	**Wage rates were included in Addendum 1.**
BIDDER QUESTION #3	Measurement and Payment Spec Section does not match the bid form. The measurement and payment section has 71 items and looks to have a number of unit price items that are to be measured. The Bid Form has 8 items. Please make sure these match.
RESPONSE #3	**A revised Bid Form was included in Addendum 1.**
BIDDER QUESTION #4	Drawing E06-01 Detail 1 provides detail on reinforcing, spacing of conduits, etc. Drawings E-U-005 and 6 provides different duct bank information and construction information. Which one governs?
RESPONSE #4	• **Details shown on E06-01 apply to duct bank drawings in the E06-XX drawing series as identified on Key Plan Drawing E06-10.** • **Details shown on E-U-005 and -006 apply for duct bank drawings in the E-U-XXX drawing series as identified on Key Plan Drawing E-A-03.**
BIDDER QUESTION #5	Drawing S00-05 includes a soldier pile schedule which states the soldier piles shall be HP16x101 whereas Drawings S-01-08-03 and 04 state that the soldier piles are to be HP14x102. Please clarify.
RESPONSE #5	**Soldier Piles shall consist of HP14x102. Drawings will be revised in the conformed contract documents to reflect this.**
BIDDER QUESTION #6	Drawing S-01-08-03 details the soldier pile for the retaining wall going into a 24" casing with a call out for Section B of Drawing S-01-08-04 which details this casing as a 30" pile. Please clarify.
RESPONSE #6	**Soldier Pile Casings shall be 30" diameter. Drawings will be revised in the conformed contract documents to reflect this.**

BIDDER QUESTION #7	We note that the Operations Building foundation is not included in this contract. Please confirm the piles, cap plates, tension connectors, duct banks, duct banks support piles, duct bank support caps, and manhole walls shown on Drawing S02-03-01 are all to be included in this contract. The manhole foundation and walls shown in plan view on Drawing S01-03-01 are also to be included, correct?
RESPONSE #7	• **The Operations Center foundation is not included under this contract.** • **All piles, cap plates, tension connectors, duct banks, duct bank support piles, duct bank support caps, and manholes walls shown on drawing S02-03-01 are included in this contract.** • **All manhole related information shown on drawing S01-03-01 is included in this contract.** • **Tension connectors for the Operations Center piles (not including piles supporting the manholes) will be removed from this contract and installed as part of the foundation installation under a separate contract. Drawing S01-02-04 will be revised in the conformed contract documents to reflect this change.**
BIDDER QUESTION #8	Please reconsider having the Operations foundation and its subgrade included in the 1415 Contract in order to ensure a better product and probably cheaper cost for the Owner in the end. Considering the piles are to be included in the 1415 contract but the concrete matt foundation and subgrade bedding are not, additional costs will have to be included in the 1415 contract to dress around the driven piles and tension connectors. The Contractor for the 1429 contract will be forced to excavate, install/compact bedding, and restraighten/repair tension connectors and then form and pour the foundation. Seems including it in the 1415 project would be the better option
RESPONSE #8	• **The Operations Center foundation is not included under this contract.** • **Tension connectors for the Operations Center piles (not including piles supporting the manholes) will be removed from this contract and installed as part of the foundation installation under a separate contract. Drawing S01-02-04 will be revised in the conformed contract documents to reflect this change.**
BIDDER QUESTION #9	Section 48 50 90 Cathodic Protection is including in the bid specifications. This spec does not detail any specific work to be performed on the site and we do not see any work for this section on the plans. Can it be deleted? If not, please detail specific scope for this spec section.

RESPONSE #9	• **Section 48 50 90, Cathodic Protection is a performance specification and requires the Contractor to assess the needs and design each piping system based on the specification. Refer to paragraph 1.02.** • **Refer to Specification Section 01 11 01, Project Summary of Work, paragraph 1.04.** • **Refer to Specification Section 15 34 42, Underground Piping, paragraph 3.03.A.21.**
BIDDER QUESTION #10	Section 33 05 07 Jacking and Boring is including in the bid specifications. This spec does not detail any specific work to be performed on the site and we see that work shown on Drawing C-01-10 but that states for a future contract. Please confirm there is no scope for this spec section in this contract.
RESPONSE #10	**Confirmed, Contract 1415 does not include Jacking and Boring, and this Section will be removed from the Conformed Documents.**
BIDDER QUESTION #11	Section 26 05 19 Low Voltage wire and Cable is including in the bid specifications. This spec does not detail any specific work to be performed on the site and we do not see any work for this section on the plans. Can it be deleted? If not, please detail specific scope for this spec section.
RESPONSE #11	**As noted on the Technical Specifications Table of Contents, Specification Section 26 05 19 Low Voltage Wire and Cable is provided for Reference Only.**
BIDDER QUESTION #12	Section 26 05 13 Medium Voltage Cable is including in the bid specifications. This spec does not detail any specific work to be performed on the site and we do not see any work for this section on the plans. Can it be deleted? If not, please detail specific scope for this spec section.
RESPONSE #12	**As noted on the Technical Specifications Table of Contents, Specification Section 26 05 13 Medium Voltage Cable is provided for reference only.**
BIDDER QUESTION #13	Section 01 31 13 Project Coordination Paragraph 3.04B states that C7/C8 site expectations should be that water will be leaking from C and L basins. How much water should be anticipated and how can the Contractor be expected to quantity this statement? Can this simply be handled with a couple of 2 inch electric sump pumps?
RESPONSE #13	**Drainage improvements have been implemented such that leakage from the C and L basins are not anticipated to impact the work. However, the stormwater design for C7 and C8 includes storage and transportation of storm water in the stratum of lightweight aggregate that was installed during the C7/C8 demolition project. The design groundwater elevation is**

	-2.0' and is controlled by the outlets from the stormwater detention facilities. During and following major rainfall events, the groundwater elevation is expected to rise above elev. -2.0'. During long periods of no rainfall, the elevation is expected to drop below elev. -2.0. Contractors should expect to deal with groundwater if their operations involve excavation in the vicinity of elev. -2.0. Please note Volume 4, Standard and Reference Drawings, Contract 1403 drawings, as well as the additional reference drawing "C8 French Drain Detail" attached to this Addendum 2.
BIDDER QUESTION #14	Can you please provide the Estimate for Job Carrollton Water Purification Plant West Power Foundations & Underground Utilities?
RESPONSE #14	**The Engineer's Opinion of Probable Construction Cost for Contract 1415 is $40,300,000.**
BIDDER QUESTION #15	Drawing 99.02 and 99.03 details embedded anchor bolts for mechanical or electric equipment. Please clarify whether embedded anchors will be required to be installed in this contract for future for mechanical or electric equipment work.
RESPONSE #15	**Contract 1415 includes installation of embedded anchor bolts for the mechanical and electrical equipment.**
BIDDER QUESTION #16	On Drawing 99.05, the "Column Base – Steel" and the "Post Base – Steel" details both show headed anchor bolts to be embedded for all the future walkways. Is the intent that all of these are pre-installed in these foundations or can the detail be changed to show post installed anchors for the future contract?
RESPONSE #16	**Contract 1415 includes installation of embedded anchor bolts for the future walkways.**
BIDDER QUESTION #17	What is the Engineer's Opinion of Probable construction Cost?
RESPONSE #17	**Refer to the response provided to Question 14.**
BIDDER QUESTION #18	Can the levee be degraded and if so, are there any limitations in doing so?
RESPONSE #18	**Due to underground utilities within the levee, and considering the final grading required, the levee should not be degraded.**
BIDDER QUESTION #19	Please clarify the quantity of ¾" studs that are to be welded HP14x102 into the retaining wall pipe pile. Section B on Drawing S01-08-04 shows 2 EA welded to the web. Drawing S01-08-03 calls for 4 EA to be welded at 12" centers to EACH side of web which could be interpreted as 8 EA on 12" centers.

RESPONSE #19	**Both drawings are accurate. To clarify, there are to be 8 EA ¾" studs on each soldier pile, 4 EA on each side of the web.**
BIDDER QUESTION #20	Note 6 on Drawing S01-08-02 states that the soldier piles shall be coated to "the full depth of the embedment and up to the top of the piles". Are the ¾" studs welded to these soldier piles to be coated as well?
RESPONSE #20	**Studs welded to areas of coated soldier piles must also be coated.**
BIDDER QUESTION #21	Is the C-7 road shown on a variety of the drawings (specifically C01-04) part of this contract? We do not see any details on the roadway nor do we see anywhere that states it is not in the contract.
RESPONSE #21	**The "roadway" extents shown within the C-7 basin in drawing C01-04 are only illustrating the final drivable access pathways required within the C-7 basin. No road will be constructed. The "road" surface within the C-7 basin shall be restored to the same surface and subsurface materials as is found prior to the beginning of work. That said, drawing C01-05 does detail the levee road construction, including the "Levee Road Section," and encompasses the levee roadway length between Station 100+43.39 to Station 107+12.77.**
BIDDER QUESTION #22	Regarding the Soldier Piles (S01-08-01), can a detailed pile schedule be provided with the various lengths (similar to the pipe piles)? a. Sheet S00-05 schedule states pile size is HP16 x 101; however, S-01-08-03 call out note states HP 14 x 102. Please Clarify b. The 24" diameter pipe pile with the conical point. Is this only required on the Type B piles? What is the length? Is this required to be augured out full depth prior to installation of the H Pile? c. Can the top and tip of each pile be provided?
RESPONSE #22	**a. Refer to the response provided to Question 5.** **b. Soldier Pile Casings shall be 30" diameter. Drawings will be revised in the conformed contract documents.** **To confirm, the 30" pile casings and conical points are only required on the Type B piles.** **Pile lengths are as shown on the contract drawings.** **Auguring for the retaining wall piles is not permitted. Piles are designed as displacement piles; if piles are augured this will violate design.** **Referencing specification 31 32 19, Geotextile Fabric and Geogrid, paragraph 3.02.B.1, note that pre-drilling is required within the C-7 basin where fabric is present.** **c. Refer to contract drawing S01-08-02 for pile and pile casing elevations and lengths.**

BIDDER QUESTION #23	A milestone schedule is referenced in Section 01 11 01 Paragraph 1.03A, but none is attached.
RESPONSE #23	**Please refer to item A4.1 in Addendum 4.**
BIDDER QUESTION #24	Spec Section 01 31 13 Paragraph 1.05.A.5. states the Contractor shall include Construction Milestones in the Progress Schedule as they may affect the Sequence of Work. Can those dates be provided?
RESPONSE #24	**Please refer to item A4.1 in Addendum 4.**
BIDDER QUESTION #25	In review of Drawing C01-09, the Site Grading drawing, and comparing that to the final grades installed on the previous contract, it appears that approximately 2 feet of fill material must be brought in to bring the site up to the final grades provided. Are we to follow Drawing C01-012 to estimate which material? We cannot find another drawing that details the section of this area for backfill requirements. The final elevation of the sand layer on the S&WB 1403 was approximately 0.00'. So are we to assume any backfill above this later to 1 ft below final grade.
RESPONSE #25	**C01-09 should be followed for final grades. This sheet should be used to estimate your quantities as well. The section in the basin will be the same as existing section with more lightweight fill to be added to accommodate the difference in elevations. The existing section is shown in the as-builts plans in the reference section of this bid package named as Contract 1403 "Demolition of Abandoned C-7 & C-8 Basins and Other Site Improvements at the Carrollton Water Treatment Plant", sheet C1415 VOL 4 SHT 45 of 194. C01-12 is only for Geotextile Fabric details, and the relative distance of where the geotextile fabric is in relation to the layers of backfill.**
BIDDER QUESTION #26	Spec Section 31 23 23 paragraph 3.08 states that the substation site surfacing shall be 6" base course and 4" final course of base course rock which contradicts C01-012. Please clarify.
RESPONSE #26	**C01-12 is only for Geotextile Fabric details only, and the relative distance of where the geotextile fabric is in relation to the layers of backfill. Please refer to question 1 for the section of filled to be used in the C7 basin. Spec Section 31 23 23 paragraph 3.08 will be removed in the conformed set of plans.**
BIDDER QUESTION #27	Drawing C01-012 also details geotextile fabric being placed beneath duct banks. Is that the intent?
RESPONSE #27	**The intent of this drawing is to show that the fill layers should remain separated. If a duct bank falls between the layers of fill, then, yes it will need geotextile fabric to be laid underneath to keep the separation continuous between the two layers.**

BIDDER QUESTION #28	Various structural drawings detail rock under the foundations and pile cap supports. What thickness and material is required in these locations? Spec Section 31 23 23 paragraph 2.09 indicates Foundation Stabilization rock to be crushed stone and paragraph 3.02 calls for pump sand beneath structures.
RESPONSE #28	**6" of crush stone is to be placed beneath each pile cap unless otherwise noted on drawing. The conformed specification will be modified accordingly.**
BIDDER QUESTION #29	Drawing S01-02-04 Pipe Pile Detail states that the Pile Cap subgrade is to be installed in Contract 1429. That is the thickness of this subgrade.
RESPONSE #29	**The Operations Center subgrade will be 1'-0".**
BIDDER QUESTION #30	Drawings M4-1-1 through M4-1-19 note "BELL PIPE END WITH RESTAINT HARNESS (TYP)". Detail 4 on DWG M6-2-4 shows the typical connection for the C900 bell and spigot end with the restrainer. Are all bell and spigot joints to receive a pipe-to-pipe restrainer?
RESPONSE #30	**Piping within C7 plan does not include long straight runs. Due to many fittings involved and lack of support for thrust blocks, all bell and spigot joints shall include restraint.**
BIDDER QUESTION #31	Drawings M4-1-1, M4-1-3, M4-1-5, M4-1-6, M4-1-9, M4-1-12, M4-1-13, M4-1-15, and M4-1-17 note that the Water Valve Manholes shall be as per S&WB DWG No. 6179-F-2. The notes pointing to the valves within the manholes call out "Restrained Joints, PVC, Megalug 2000PV or Equal". S&WB DWG No. 6179-F-2 depicts Ductile Iron piping entering and existing the water valve manholes. Please confirm that the restrained joints within all new water valves manholes will require Ductile Iron piping as per the S&WB detail.
RESPONSE #31	**The restrained joints within water valve manholes will require DI piping as shown on S&WB detail. In the conformed contract documents, reference to PVC restraint will be removed from drawing at valve manholes.**
BIDDER QUESTION #32	Can you please confirm that the steel beams, posts, columns, grating, and any other structural steel member (other than concrete/masonry embeds i.e., base plates and anchor bolts) are not included in this contract. The Structural Drawings note that Elevated Platforms and Stairs will be in future contracts 1416 & 1420.
RESPONSE #32	**C1415 includes the supply and installation of concrete and masonry and all items embedded in concrete and masonry only. For clarification – cast-**

	in-place anchor bolts embedded in concrete are in C1415, but base plates and grout pads are NOT in C1415.
BIDDER QUESTION #33	Drawing S3.42 has 7" & 11" square base plates that say "see note 3". Note 3 is a note on grating
RESPONSE #33	**Refer to GENERAL SHEET NOTES 3, not SHEET KEYNOTES.**
BIDDER QUESTION #34	Drawing S3.52 has 11" square base plates that say "see note 3". Note 3 is a note on grating
RESPONSE #34	**Refer to GENERAL SHEET NOTES 3, not SHEET KEYNOTES.**
BIDDER QUESTION #35	Drawing S3.52 note 8 calls out 4 column support caps, the drawings show 6.
RESPONSE #35	**The note will be updated in the conformed contract documents to reference 6 column support caps.**
BIDDER QUESTION #36	Please provide TOC values for the pedestals on drawing S6.01
RESPONSE #36	**TOC elevations will be added to a future drawing revision.**
BIDDER QUESTION #37	Drawing S8.00 Keynote 2 calls out detail 0330-056 Type X. There is no Type X shown in the detail drawings
RESPONSE #37	**Equipment pad requirements will be clarified on a future revision. For bid purpose, price based on Type K.**
BIDDER QUESTION #38	Please provide TOC values for the pedestals on drawing S8.00
RESPONSE #38	**TOC elevations will be added to a future drawing revision.**
BIDDER QUESTION #39	Please provide TOC values for the foundation and walls on drawing S9.12
RESPONSE #39	**TOC elevations will be added to a future drawing revision.**
BIDDER QUESTION #40	Drawing S10.00 Keynote 2 calls out detail 0330-056 Type X. There is no Type X shown in the detail drawings
RESPONSE #40	**Equipment pad requirements will be clarified on a future revision. For bid purpose, price based on Type K.**
BIDDER QUESTION #41	Please provide TOC values for the pedestals on drawing S10.00
RESPONSE #41	**TOC elevations will be added to a future drawing revision.**

BIDDER QUESTION #42	Drawing S15.21 shows elevations for the wall and pad but those do not match the scaled height on drawing S15.22. Please advise which drawing is correct.
RESPONSE #42	**Bids to be based on dimensions and elevations as shown.**
BIDDER QUESTION #43	Drawing S15.30 shows elevations for the wall and pad but those do not match the scaled height on drawing S15.31. Please advise which drawing is correct.
RESPONSE #43	**Bids to be based on dimensions and elevations as shown.**
BIDDER QUESTION #44	Drawing S15.00 shows multiple foundations around T7 EER, the T7 EER drawings do not show these foundations.
RESPONSE #44	**Bids to be based on foundations as shown on the IFB drawings.**
BIDDER QUESTION #45	Drawing S01-08-02, note 6 states soldier piles are to be coated with 40 mil thickness. Specification section 09 90 01 protective coating schedule does not call out the soldier piles. Please confirm soldier piles are coated with 40 mil thickness.
RESPONSE #45	**Yes, the protective coating is to be applied to soldier piles per drawing S01-08-02. Specification 09 90 01 will be updated accordingly in the conformed contract documents.**
BIDDER QUESTION #46	Drawing S00-05, Pile Testing Note 4 states “See pile location plan drawings S01-02-01, S01-02-02, and S01-02-03 for test pile locations”. STP #1 is shown on drawing S01-02-01 and STP #2 is shown on drawing S01-02-03. No pile is noted on S01-02-02 for static testing. Please confirm there are only 2 static tests.
RESPONSE #46	**Confirmed, there are only 2 static tests.**
BIDDER QUESTION #47	Drawing S3.51, sheet key note 1 states “14” dia steel pile typ 38 plcs”. Only 32 piles are shown. Please clarify.
RESPONSE #47	**32 piles is correct – see drawing S3.62 for standalone piles/pile caps.**
BIDDER QUESTION #48	Please confirm the quantity for Item 11 “14-in Diameter x ½-in Thick Steel Pipe Piles”.
RESPONSE #48	**See response above.**
BIDDER QUESTION #49	On Contract Drawing S0.02, under STEEL PIPE PILES, the notes state that “The Contractor is to soft dig to a relative depth of 10FT below grade prior

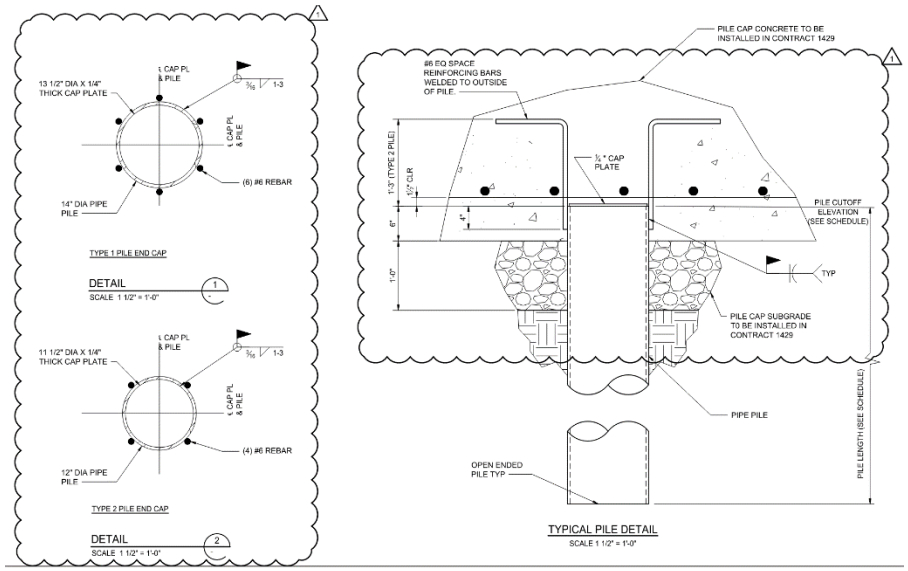
	to installing piles." Is this for all piles for the project? Or for piles where a suspected existing utility may be located?
RESPONSE #49	**In the conformed contract documents the first sentence of the fourth paragraph of STEEL PIPE PILES notes on drawing S0.02, requiring a soft dig to 10FT below grade, will be revised to remove this requirement within the C-7 basin.**
BIDDER QUESTION #50	Please consider extending the time period to submit questions.
RESPONSE #50	**Extensions to the bid due date and the date for submitting questions have been made. Please refer to Addendum 3.**
BIDDER QUESTION #51	Specification section 09 90 01, page 13, protective coating schedule notes System 9B for Steel Pipe piles with a minimum coverage of 100 MDFT. Drawing S01-02-04, note 3 states piles are to be coated with 40 mil thickness. Please clarify
RESPONSE #51	**Piles are to be coated with minimum 40 mils thickness. Specification 09 90 01 will be revised accordingly in the conformed contract documents.**
BIDDER QUESTION #52	Coating length, thickness, and material for the 30" soldier pile casings are not specifically called out on the drawings or in specification 09 90 01. Please provide coating length, thickness, and material for the 30" soldier pile casings
RESPONSE #52	**The minimum coating thickness on the 30" diameter solder pile casings shall be 40 mils, for the full embedded length of the casing, using the same coating System No. 9B as is used for the steel pipe piles.**
BIDDER QUESTION #53	Specification section 31 09 18 mentions reaction Kentledge/ballast to perform static load testing. Can reaction piles be installed to perform load testing in lieu of the Kentledge method?
RESPONSE #53	**Use of reaction piles is acceptable at Contractor's Option.**
BIDDER QUESTION #54	Supplementary Condition 6.02.C. states that the contractor will be responsible for reimbursing the owner for the inspector's overtime. What is the anticipated cost per day/per hour for the inspector? What is the anticipated work schedule for the QA Inspector/Designated Inspector per week?
RESPONSE #54	**The contractor will not be responsible for this reimbursement for C1415. The conformed contract documents will be revised accordingly.**

BIDDER QUESTION #55	Drawing C01-12 shows 3' of lightweight fill but drawings the Contract 1403 drawings show a minimum of 1' lightweight aggregate. Please advise the average depth of light weight aggregate.
RESPONSE #55	**C01-12 is not to be used for final grading; this drawing is for fabric repair illustration only. The depth of the lightweight aggregate varies across the site per the 1403 As-built drawings provided with Addendum 4.**
BIDDER QUESTION #56	The civil grading plan (drawing C01-09) shows existing grades to be between 3 and 5 but Contract 1403 drawings show the existing grade to be between 2 and 3. Please advise which drawings are correct for current site grade.
RESPONSE #56	**Contract 1403 as-built drawings are provided in Addendum 4.**
BIDDER QUESTION #57	Please advise what bid items the following plans go under a. BOP Generator Foundation – S7.00 & S7.10 b. BOP Miscellaneous Pad – S8.00 & S8.10 c. T7 Generator – S15.10 thru S15.13 d. T7 LV XFMR – S15.30 & S15.31
RESPONSE #57	**a. Applies to Bid Item 20** **b. Applies to Bid Item 21** **c. Applies to Bid Item 23** **d. Applies to Bid Item 25**
BIDDER QUESTION #58	Please advise what drawings / plans go under the following bid items a. 20 – BOP Subplot: BSG Foundation b. 21 – BOP Subplot: Air Compressor Foundation c. 23 – CTG7 Sublot: CTG Foundation d. 25 – CTG7 Subplot: Aux Transformer Foundation
RESPONSE #58	**a. Applies to Drawings S7.00 and S7.10** **b. Applies to Drawings S8.00 and S8.10** **c. Applies to Drawings S15.10 through S15.13** **d. Applies to Drawings S15.30 and S15.31**
BIDDER QUESTION #59	Bid Items 59 thru 66 describe the Duct Banks by which letter sectional view and can be found on drawings E06-10 thru E06-14. Can Bid Items 67 thru 69 be given more detail?
RESPONSE #59	**For bidding purposes assume the duct banks shown on drawings 1415-WPCYRD-E-U-xxx listing the number and size of conduits will require duct bank below the foundation of the 'width' shown on the drawing and contactor-to-determine 'depth' necessary for standard detail defined conduit encasement. The goal will be to embed the conduit in the foundation but do not have final OEM data to support specific conduit**

	geometry(ies). Content shown is intended to characterize a bid-basis scope of work.
BIDDER QUESTION #60	Bid drawings E-U-B02 to E-U-F05 shows "electrical belowground raceways," but give no specific details outside of the number and size of conduit at each location. We assume that the intent is to cast the raceways in the foundation slab at each respective location. Please confirm. If not, are the only underground ductbanks in this contract shown on drawings E06 – 3 through E06-14?
RESPONSE #60	**For bidding purposes assume the subject number and size of conduits will require duct bank below the foundation of the 'width' shown on the drawing and contactor-to-determine 'depth' necessary for standard detail defined conduit encasement. The goal will be to embed the conduit in the foundation but do not have final CTG OEM data to support specific conduit geometry(ies). Content shown is intended to characterize a bid-basis scope of work.**
BIDDER QUESTION #61	Are the elevations shown on drawings G1-0 and C01-09 the current elevations at the site now?
RESPONSE #61	**The elevations shown are for final grade. The current site conditions are per the Contract 1403 as-built drawings, but subject to change due to ongoing site construction.**
BIDDER QUESTION #62	Please provide the location limits of any required fill material that must be brought to the site to adjust the current elevations on site to the required elevations for individual structure foundations.
RESPONSE #62	**Additional fill is not required around the individual foundations. Final grading shall be per contract drawing C01-09.**
BIDDER QUESTION #63	Contract 1415 documents note that the surveying and layout is to be conducted by a PLS or Civil Engineer with a P.E. Is this all surveying and layout (elevations, grade, vertical controls, horizontal controls), or can the layout be conducted under the supervision of a PLS/Civil P.E.?
RESPONSE #63	**The work may be done under the supervision of a PLS.**
BIDDER QUESTION #64	E15-02 Conduit Schedule (sheets 292-296 of 490) references conduit sizes 4" & 6" only. On drawings E06-03, Duct Bank Sections & Details A6 & A7 show conduits DM0001 – DM0008 sized as 5". On E15-02 sheet 2 of 5 these conduits are noted as 4". Should we assume the conduit schedule is correct?
RESPONSE #64	**Use 5" conduit as shown on design drawings. E15-02 conduit schedule will be updated accordingly in the conformed contract documents.**

BIDDER QUESTION #65	E15-02 Conduit Schedule (sheets 292-296 of 490) references conduit sizes 4" & 6" only. On drawings E06-04, Duct Bank Sections & Details B & A12 show conduits DH0012 – DH0015 & DM0009 – DM0011 sized as 5". On E15-02 sheet 2 of 5 these conduits are noted as 6". Should we assume the conduit schedule is correct?
RESPONSE #65	**Use 5" conduit as shown on design drawings. E15-02 conduit schedule will be updated accordingly in the conformed contract documents.**
BIDDER QUESTION #66	According to the Conduit Schedule E15-02, Raceway tag numbers DF0001 – DF0006 are noted as 4" RGS and are to be concrete encased along with other PVC raceways. Is it acceptable to utilize concrete tight threadless connectors to join the RGS runs of conduit in the duct banks?
RESPONSE #66	**Use standard ANSI threaded RGS connectors as the basis for the bid. Alternate constructions may be considered as a value engineering activity post-award.**
BIDDER QUESTION #67	There are 2 different type ground test wells called out in the contract documents, drawings E05-01 Detail 1 and E-G-05Ground Test Well detail. Can one specific type be selected for typical use? If so, please advise on which type to figure.
RESPONSE #67	**Follow E05-01 Detail 1; detail E-G-05 will be updated in the conformed contract documents to match E05-01 Detail 1.**
BIDDER QUESTION #68	Is a Lightning Protection System required for CN 1415?
RESPONSE #68	**The inclusion of 'Lightning Protection System' specification is to ensure the lightning protection system grounding electrodes and associated down-conductors are appropriately, compliant with lightning protection specification and standard details, included in the scope of supply. No 'above ground', beyond connection pigtails, lightning protection scope of supply is required in CN1415.**
BIDDER QUESTION #69	Can the 3D model be shared with the bidders to reference?
RESPONSE #69	**A Navisworks .nwd file has been made available for download. Please note that the information included in the file is For Reference Only and should not be used for material take off. The information included in the Contract Drawings and Specifications take precedence over the model.**
BIDDER QUESTION #70	There are 7 manholes located on drawings E-U-B02 – E-U-F07. What size do these manholes need to be? Please provide a design detail (i.e., physical size, conduit rough in locations and elevations, etc.) as drawing E-U-03 does not provide the needed information.

RESPONSE #70	**For bidding purposes assume the following:** **+ WPCAUX-MH01.00: 10'x10'x8'** **+ WPCAUX-MH02.00: 10'x10'x8'** **+ WPCAUX-MH03.00: 10'x10'x8'** **+ WPCAUX-MH07.00: 10'x10'x8'** **+ WPCAUX-MH08.00: 10'x10'x8'** **+ WPCAUX-MH09.00: 10'x10'x8'** **+ WPCCTG7-MH01.00: 10'x10'x8'**
BIDDER QUESTION #71	What type and size manhole covers are required for the above-mentioned manholes?
RESPONSE #71	**All manhole covers are required to comply with SWBNO manhole cover details. For the above noted manholes utilize reference drawing 1000-P5C.**
BIDDER QUESTION #72	What elevations do the duct banks and manholes need to be set at, that are on drawings E-U-B02 – E-U-F07?
RESPONSE #72	**For bidding purposes assume the subject ductbanks, per answer to BIDDER QUESTION 60 above, configure ductbank below the foundation with top-of-ductbank equal to bottom-of-foundation. The goal will be to embed the conduit in the foundation but do not have final OEM data to support specific conduit geometry(ies). Content shown is intended to characterize a bid-basis scope of work.**
BIDDER QUESTION #73	Drawing 99.10 has a pile detail that differs from what is shown on S01-02-04. Please confirm which to use
RESPONSE #73	**Please use the following revised detail for bidding purposes. The drawings will be revised in the conformed contract documents. Due to differences in pile caps and loads, dimensional details and rebar sizes may still vary.**

	
BIDDER QUESTION #74	Is the contractor required to install racks in the Entergy provided manholes?
RESPONSE #74	**No. Racks in the Entergy manholes will be provided by others and are not included in C1415.**
BIDDER QUESTION #75	Drawing S00-002 states the cast in place concrete will be 5,000 psi strength and that rebar splices are to be 62 bar diameters in length. Drawing S0.01 has a chart for rebar splice lengths stating the concrete mix shall be 4,000 psi mix. Can this discrepancy be clarified regarding rebar lengths and concrete strengths?
RESPONSE #75	***<Partial response provided; full response to follow in a future addendum, no later than 11:00 AM on February 3, 2023>*** **5,000 psi mix is correct. Drawing S0.01 will be revised accordingly in the conformed contract documents.**
BIDDER QUESTION #76	Drawing S8.9 and Drawing S8.10 show different diameters for the pipe pile. Are these to be 12" or 14"? Also, qty is incorrect as it states 4 EA but shows 10 EA.
RESPONSE #76	**14" Piles is correct – use the quantity shown on plan (10). Revisions will be made in the conformed contract documents as needed.**
BIDDER QUESTION #77	Drawing S15.3 and Drawing S15.31 show different diameters for the pipe pile. Are these to be 12" or 14"?
RESPONSE #77	**14" Piles is correct. Revisions will be made in the conformed contract documents as needed.**

BIDDER QUESTION #78	Please clarify the response to Question No. 19 which states "to clarify, there are 8 EA ¾" studs total per solider pile". Drawing S01—08-03 references 12" centers. So are there 8 EA studs x 12 inch centers on a 50 ft pile for a total of 400 per soldier pile or just 8 total? The answer differs from this drawing.
RESPONSE #78	**There are a total of eight (8) studs per soldier pile – four (4) on each side, spacing between studs is twelve (12) inches. Studs should be located as shown in the drawing.**
BIDDER QUESTION #79	Spec section 31 62 16 – 6 – 3.01 Pile Driving Equipment allows the use of Air, diesel, hydraulic, or vibratory hammers. Is it permissible to install all piles via vibratory method?
RESPONSE #79	**Vibratory pile driving is acceptable. While adhering to the contract document requirements, hammer selection, sequencing, and all means and methods are the Contractor's responsibility.**
BIDDER QUESTION #80	Coating specifications require piles to be coated minimum 1 coat / 100 mdft but plan notes on S01-02-04 state piles to be coated minimum 40 mils. Please clarify.
RESPONSE #80	**Coating thickness shall be a minimum of 40 mils in thickness. The specification will be updated accordingly in the conformed contract documents.**
BIDDER QUESTION #81	What size / length pile is required for the piles on Sheet S8.00? Notes state 12" pile, typ of 4 but there are no further details. Sheet 8.10 detail show a 14" pile in the section view. Please confirm correct pile size.
RESPONSE #81	**14" piles are correct. Revisions will be made in the conformed contract documents as needed.**
BIDDER QUESTION #82	Sheet S15.20 Keynotes specify piles are 12" but references standard detail 3162-001 which specifies 14" piles. Please confirm which pile size is correct.
RESPONSE #82	**14" piles are correct. Revisions will be made in the conformed contract documents as needed.**
BIDDER QUESTION #83	Sheet S15.30 Keynotes specify piles are 12" but references standard detail 3162-001 which specifies 14" piles. Please confirm which pile size is correct.
RESPONSE #83	**14" piles are correct. Revisions will be made in the conformed contract documents as needed.**

BIDDER QUESTION #84	Sheet S15.40 Keynotes specify piles are 12” but references standard detail 3162-001 which specifies 14” piles. Please confirm which pile size is correct.
RESPONSE #84	**14” piles are correct. Revisions will be made in the conformed contract documents as needed.**
BIDDER QUESTION #85	Sheet S15.50 Keynotes specify piles are 12” but references standard detail 3162-001 which specifies 14” piles. Please confirm which pile size is correct.
RESPONSE #85	**14” piles are correct. Revisions will be made in the conformed contract documents as needed.**
BIDDER QUESTION #86	Sheet S15.51 Keynotes specify piles are 10” but references standard detail 3162-001 which specifies 14” piles. Please confirm which pile size is correct.
RESPONSE #86	**14” piles are correct. Revisions will be made in the conformed contract documents as needed.**
BIDDER QUESTION #87	Are the 30” casings for the soldier piles required to be painted? If so what is the coating length?
RESPONSE #87	**The minimum coating thickness on the 30” diameter solder pile casings shall be 40 mils, for the full embedded length of the casing, using the same coating System No. 9B as is used for the steel pipe piles.**
BIDDER QUESTION #88	Add No. 3 states the bids will be publicly opened at 11:30 am on February 1, 20203. A3.1 under the previous statement, says that the bids are due on February 8, 2023 at 11:00 Am. Please get this clarified.
RESPONSE #88	**Bids are due no later than 11:00 AM, and will be publicly opened at 11:30 AM, on February 8, 2023. Addendum 3 revised the due date from February 1, 2023, to February 8, 2023.**
QUESTIONS BELOW WILL BE ADDRESSED IN A FUTURE ADDENDUM, NO LATER THAN 11AM CENTRAL ON FRIDAY, FEBRUARY 3, 2023	
BIDDER QUESTION #	Specification section 31 09 17, page 4, paragraph C states approximately 20 percent of piles will be tested. Drawing S00-05, Installation Construction Note 4 states re-strike testing should be performed on 10% of installed piles onsite. Please confirm that only half of the tested piles will be re-struck
RESPONSE #	

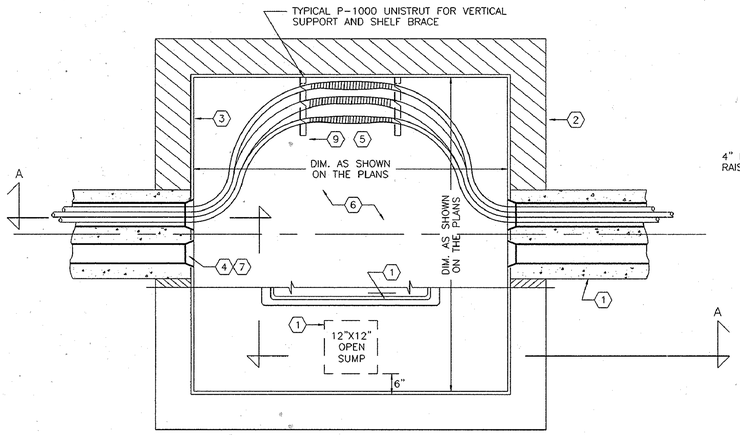
BIDDER QUESTION # **RESPONSE #**	Specification section 31 09 17, page 4, paragraph C states approximately 20 percent of piles will be tested. Drawing S00-05, Installation Construction Note 4 states re-strike testing should be performed on 10% of installed piles onsite. Is the number of test stated above to be performed on both the 14" diameter piles and the 12" diameters piles (i.e. 20% of 14" piles and 20% of 12" piles)?
BIDDER QUESTION # **RESPONSE #**	Supplementary Condition 6.08.A. states the Contractor shall obtain all required permits from the City of New Orleans. What City of New Orleans permits will be required of the Contractor for this project?
BIDDER QUESTION # **RESPONSE #**	Specification Section 31 23 19, 3.03, A. MONITORING GROUNDWATER LEVELS: States that the contractor is to install and monitor observation wells at locations selected by the Engineer. How many locations will be monitored?
BIDDER QUESTION # **RESPONSE #**	Specification Section 31 23 19, 3.04, A. MONITORING DEWATERING-INDUCED SETTLEMENT – states that the contractor is to establish monuments for monitoring settlement at locations selected by the Engineer. How many locations are anticipated for monitoring?
BIDDER QUESTION # **RESPONSE #**	Is the contractor required to submit all required plans and information highlighted in Specification Section 01 88 15, Anchorage and Bracing? The specification section highlights the anchorage and bracing for equipment, piping, mechanical work, anchor bolts and plates, etc. Please clarify what is expected under this contract for the foundations and underground utilities.
BIDDER QUESTION # **RESPONSE #**	Drawing E-U-F06 and E-U-F07 show a raceway outside of the foundation slabs. Should this raceway be a duct bank? If so, should we follow the details shown in drawing E06-01 for an appropriate sizing? Please advise. If these raceways between foundations are to be in a ductbank, should they be pile supported? If not, are the only underground ductbanks in this contract shown on drawings E06 – 3 through E06-14?

BIDDER QUESTION # **RESPONSE #**	In review of Add #2 response to question #15, can you please provide the electrical and mechanical equipment information so that we can properly estimate anchors location and sizing?
BIDDER QUESTION # **RESPONSE #**	Are the test pilings included in the respective piling item linear footage for measurement and payment?
BIDDER QUESTION # **RESPONSE #**	Is the additional 10% longer length required for test pilings included in the respective piling item linear footage for measurement and payment?
BIDDER QUESTION # **RESPONSE #**	Specification section 26 00 10, 1.02A states that duct banks and manholes shall be pile supported. There is no structural design information that can be found for the duct banks and manholes shown on drawings E-U-B02 – E-U-F07.
BIDDER QUESTION # **RESPONSE #**	Drawing E-U-E06 shows manhole WPAUX-MH03.00 but does not have show any duct bank routing to it. It does have a note above the manhole noting 4x6" & 6x4" ducts. Should the duct bank for this manhole match the one for WPAUX-MH02.00? If not, please provide routing of MH03 duct banks.
BIDDER QUESTION # **RESPONSE #**	Drawing S01-08-03 shows the cut section of the retaining wall but the existing levee is not shown. Can the existing levee be shown on this drawing so we can calculate the cut and fill required to install the new retaining wall.
BIDDER QUESTION # **RESPONSE #**	Drawing S00-002 states the cast in place concrete will be 5,000 psi strength and that rebar splices are to be 62 bar diameters in length. Drawing S0.01 has a chart for rebar splice lengths stating the concrete mix shall be 4,000 psi mix. Can this discrepancy be clarified regarding rebar lengths and concrete strengths?

BIDDER QUESTION # **RESPONSE #**	On Drawing S01-02-04, we have a few questions regarding the pile cap plates and rebar for tension connectors: a. Is this detail required for all piles? b. Does this material need to be coated like the piles or remain bare? c. Does the coating at pipe pile weld to plate need to be coated prior to placing concrete?
BIDDER QUESTION # **RESPONSE #**	Please confirm the quantities for the 12" and 14" piles. Our estimated quantities are more for the 12" and less for the 14".
BIDDER QUESTION # **RESPONSE #**	Spec section 31 62 16- 5 – 2.03 lists the requirement for pile toe protection but Dwg S01-02-04 calls for an inside 60-degree bevel as the typical driving tip. Which is required?
BIDDER QUESTION # **RESPONSE #**	Spec section 31 62 16- 5 – 2.01B states a minimum of 10 test piles to be installed at production pile locations. Is it the intent to perform dynamic testing on the initial drive + restrikes only at all of these locations?
BIDDER QUESTION # **RESPONSE #**	Note 4 under Installation Construction Notes on Dwg S00-05 states restrike testing should be performed on 10% of installed piles onsite. Specifications state that 20% of piles to be dynamically tested at locations equally distributed around the site. Can you please confirm the percentage or quantity of piles to be dynamically tested at the end of initial drive as well as the 48 hour restrike?
BIDDER QUESTION # **RESPONSE #**	Please confirm if three static load tests (compression, tension, and lateral) are required at both STP#1 and STP#2. Will it be required to perform dynamic testing + restrikes of these piles in addition to the 10 piles tested at production pile locations?
BIDDER QUESTION # **RESPONSE #**	Can we be provided with the quantity and size of piles that need to be purchased longer for dynamic testing purposes?

BIDDER QUESTION # **RESPONSE #**	Are plans available for the misc foundations in the T7 area?
BIDDER QUESTION # **RESPONSE #**	Are plans available for the misc foundations in the BOP area?
BIDDER QUESTION # **RESPONSE #**	Please provide detail of Equipment Pad Type X, detail 0330-056 no Type X is provided. Also need dimensions of Equipment Pads shown on sheet S10.00 and S10.10. If anchor bolts are included in this contract, please include that as well.
BIDDER QUESTION # **RESPONSE #**	Please provide dimensions of the Fuel Tank Pad as shown on sheets S10.00 and S10.10. If anchor bolts are included in this contract, please provide a schedule of those as well.
BIDDER QUESTION # **RESPONSE #**	Please Provide reinforcing steel details or list for the foundation and equipment pads on sheets S10.00 and S10.10.
BIDDER QUESTION # **RESPONSE #**	Dynamic Pile Testing specification 31 09 17 Paragraph 3.04C states that 20% of the steel pipe piles are to be tested initially and then 10% will be restruck. It also states that these piles will be at locations equally distributed throughout the project. Due to the numerous amount of piles to be tested which are well over 100, are to be restruck, and are distributed throughout, the PDA testing agency and instrumentation installer will need to be onsite during the entire pile driving operations. This is a large cost to the project. Please confirm intent.
BIDDER QUESTION # **RESPONSE #**	Please confirm that the 30” pipe pile with conical points will not be tested with the PDA method.
BIDDER QUESTION #	The inside dimension of an HP14x102 is 11.25" (inside of flange to inside of flange). The precast panels are 11" thick. Suppliers of Redwood for blocking say the minimum thickness for redwood is 3/4". Since redwood

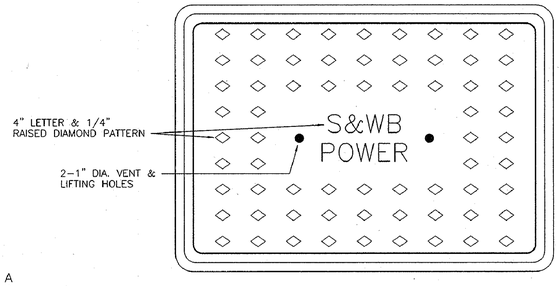
RESPONSE #	blocking 1/4" this is not available, would an alternate form of blocking material be approved for this purpose?

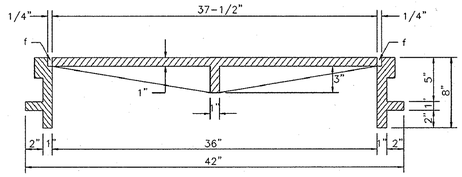


DETAIL NO. 1
MANHOLE PLAN VIEW

1. EXACT LOCATION OF MANHOLE COVER, DEAD MAN SCREW ANCHORS, SUMP AND DUCT ENTRY SHALL BE DETERMINED IN THE FIELD.
2. CONSTRUCT MANHOLE WALLS OF CONCRETE MASONRY UNITS 8" x 8" x 16" WITH #5 VERTICAL REBAR AT 8" O.C. EMBEDDED IN MANHOLE FOUNDATION. ALL CELLS SHALL BE FULLY GROUTED
3. 3/4" THICK MOISTUREPROOF SAND-CEMENT MORTAR COATING.
4. ALL SPARE CONDUITS SHALL BE PLUGGED/CAPPED TO PREVENT ENTRY OF DIRT AND DEBRIS. INSTALL 40LB PULL ROPE IN ALL NEW SPARE CONDUITS.
5. ALLOW SUFFICIENT SLACK TO RACK ALL CABLES ON MANHOLES WALLS. RACKS SHALL BE GALVANIZED STEEL UNISTRUT NO. P-1000 WITH NO. P-1753FG CABLE SADDLES FOR EACH CONDUCTOR. TIE WRAP CONDUCTOR TO SADDLE AND BRACE FOR POSITIVE SUPPORT.
6. SLOPE FLOOR SLAB 1/4" IN 1'-0" TOWARD SUMP.
7. ALL CONDUITS SHALL BE FITTED WITH END BELLS PER DETAIL NO. 5. SET END BELLS FLUSH WITH WALL.
8. DEPTH OF MANHOLE SHALL BE 72" UNLESS SHOWN OTHERWISE ON THE PLANS.
9. PROVIDE A CABLE SPLICE STAND ACCORDING TO DETAIL NO. 3 WHEN INSTALLING A 3/C-LEAD COVER CABLE IN LIEU OF CABLE SUPPORTS FOR THREE SINGLE CONDUCTORS. SEE NOTE 5 ABOVE.

FRAME WEIGHT = 403 LBS.
COVER WEIGHT = 297 LBS.
TOTAL WEIGHT = 700 LBS.

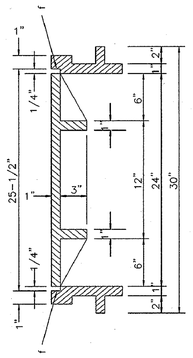


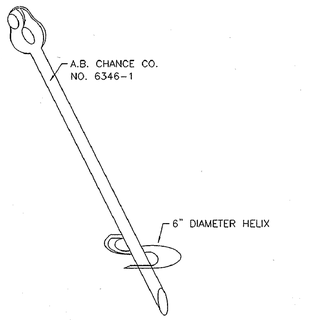


NOTE: SURFACES MAKED "f" SHALL BE MACHINE FINISHED

DETAIL NO. 2
MANHOLE FRAME & COVER

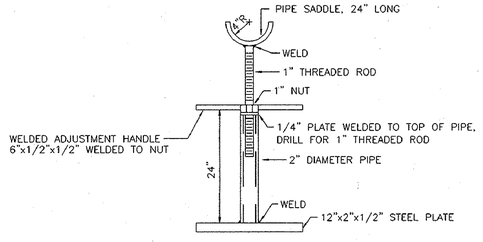
NOTE: FRAME AND COVER FURNISHED BY S&WB UNLESS SPECIFIED OTHERWISE.





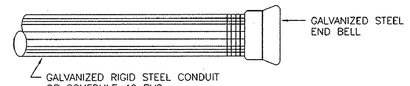
3/4"x5'-0"x1/2" HOT DIP GALVANIZED
"DEAD MAN" SCREW ANCHOR (FOUR (4) REQUIRED)

DETAIL NO. 4



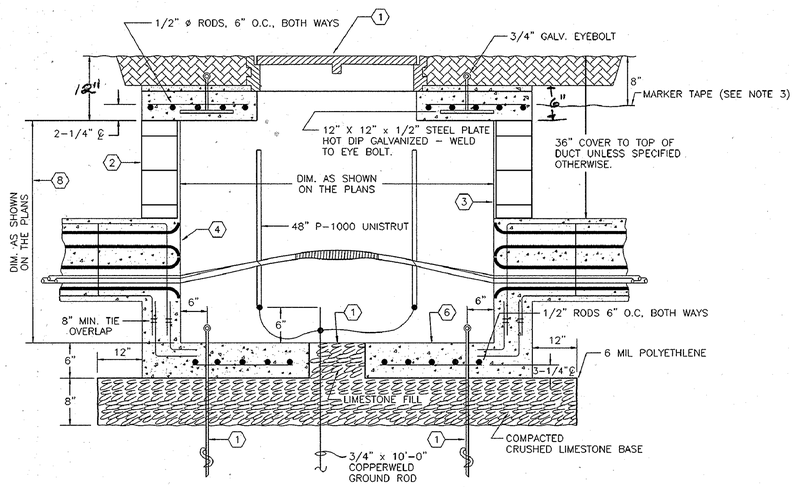
HOT DIP GALVANIZE AFTER FABRICATION

DETAIL NO. 3
CABLE STAND

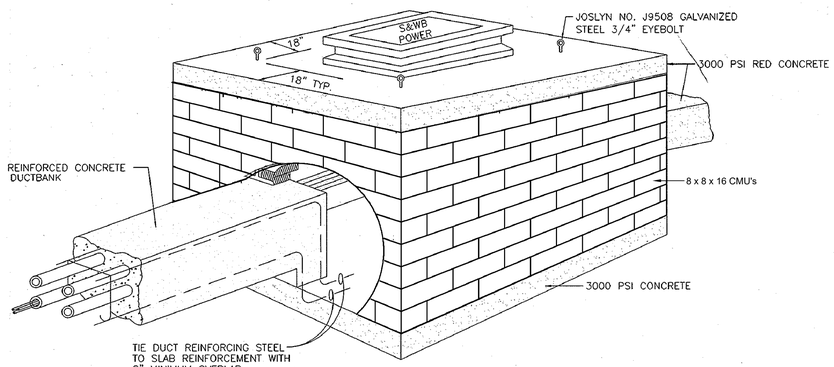


NOTE: END BELLS SHALL BE INSTALLED ON OPEN ENDS OF ALL CONDUITS WHETHER DIRECT BURIAL OR ENTERING MANHOLES.

DETAIL NO. 5



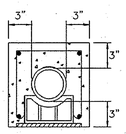
DETAIL NO. 1 - SECTION A-A



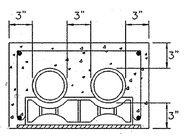
DETAIL NO. 1
PERSPECTIVE VIEW

GENERAL NOTES:

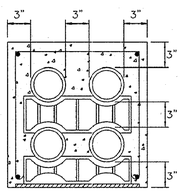
1. INSTALL INITIAL CABLES IN LOWER CONDUITS LEAVING SPARE CONDUITS AT TOP OF DUCTBANK, UNLESS SPECIFIED OTHERWISE.
2. ALL CONCRETE FOR DUCT ENCASEMENT SHALL BE 3000 PSI COLORED RED BY ADDITION OF 10 LBS. RED DYE PER CUBIC YARD OF CONCRETE-MIXED IN THE TRUCK.
3. INSTALL 6" WIDE MARKER TAPE 8" BELOW FINISH GRADE. TAPE SHALL BE TERRA TAPE YELLOW WARNING TAPE IMPRINTED "CAUTION - S&WB ELECTRIC CABLE BELOW".
4. STEEL CONDUIT SHALL BE RIGID GALVANIZED STEEL.
5. PVC CONDUIT SHALL BE CARLON PV-DUIT, SCHEDULE 40 WITH MOLDED END COUPLINGS.
6. INSTALL DUCT 36" BELOW GRADE, OR AS SPECIFIED.
7. DETAILS SHOWN HEREIN DEPICT STANDARD CONSTRUCTION METHODS WHICH MAY OR MAY NOT BE INVOLVED IN ALL CONTRACTS.



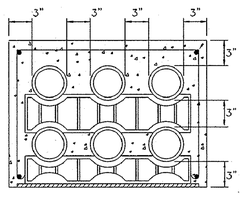
DETAIL NO. 6



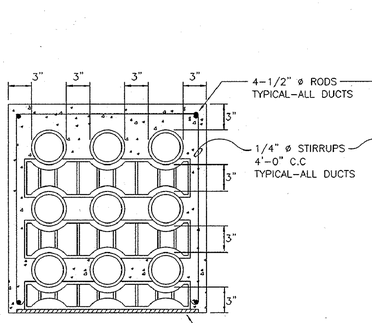
DETAIL NO. 7



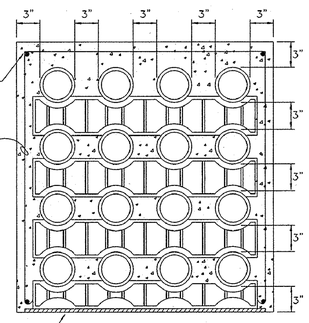
DETAIL NO. 8



DETAIL NO. 9



DETAIL NO. 10



DETAIL NO. 11

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

STANDARD DETAILS OF CONSTRUCTION

ELECTRICAL POWER MANHOLES AND DUCTBANKS

DR. THUYAN NGUYEN	
LAST EDIT JULY 17, 2001	
CK.	GENERAL SUPERINTENDENT
AP.	DWG. No. 1000 - P5
SCALE NONE	
DATE JUNE 22, 2001	SET NO. SHEET NO. 1 OF